

Recombinant Full Length Human PROS1 Protein, C-Flag-tagged

Cat. No. PROS1-206HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PROS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a vitamin K-dependent plasma protein that functions as a cofactor for the anticoagulant protease, activated protein C (APC) to inhibit blood coagulation. It is found in plasma in both a free, functionally active form and also in an inactive form complexed with C4b-binding protein. Mutations in this gene result in autosomal dominant hereditary thrombophilia. An inactive pseudogene of this locus is located at an adjacent region on chromosome 3. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	72.6 kDa
AA Sequence	MRVLGGRCGALLACLLLVPVSEANFLSKQQASQVLVRKRRANSLLEETKQGNLER ECIEELCNKEEARE VFENDPETDYFYFPHYLVCLRSFQTGLFTAARQSTNAYPDLRSC VNAIPDQCSPLPCNEDGYMSCKDGKAS FTCTCKPGWQGEKCEFDINECKDPSNIN GGCSQICDNTPGSYHCCKNGFVMLSNKKDCKDVDECSLKPS ICGTAVCKNIPGDF

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ECECPEGYRYNLKSKSCEDIDECSENMCAQLCVNYPGGYTCTYCDGKKGFKLAQDQ
 K SCEVVSVCPLPLNLDTKYELLYLAEQFAGVVLYLKFRLEISRFSAEFDRTYDSEGV
 ILYAESIDHSAWL LIALRGGKIEVQLKNEHTSKITTTGGDVINNGLWNMVSVEELEHSIS
 IKIAKEAVMDINKPGPLFKPENGL LETKVYFAGFPRKVESELIKPINPRLDGCIRSWNL
 MKQGASGIKEIIQEKQNKHCLVTVEKGSYYPGSGI AQFHIDYNNVSSAEGWHVNVTL
 NIRPSTGTGVMALVSGNNTVPFAVSLVDSTSEKSQDILLSVENTVIY RIQALSLCSD
 QQSHLEFRVNRNNLELSTPLKIETISHEDLQRQLAVLDKAMKAKVATYLGGLPDVVPF
 SAT
 PVNAFYNGCMEVNINGVQLDLDEAISKHNDIRAHSCPSVWKKTKNSTRTRPLEQKLI
 SEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein
Protein Pathways	Complement and coagulation cascades
Full Length	Full L.

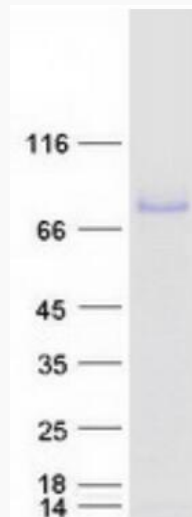
GENE INFORMATION

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Gene Name	PROS1 protein S [Homo sapiens (human)]
Official Symbol	PROS1
Synonyms	PSA; PROS; PS21; PS22; PS23; PS24; PS25; THPH5; THPH6
Gene ID	5627
mRNA Refseq	NM_000313.4
Protein Refseq	NP_000304.2
MIM	176880
UniProt ID	P07225



Coomassie blue staining of purified PROS1 protein.

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